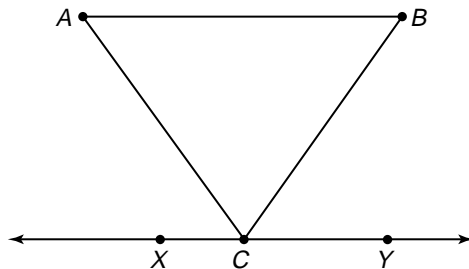


## Practice

Student Edition  
Pages 180–187**Classifying Triangles**

For Exercises 1–7, refer to the figure at the right. Triangle  $ABC$  is isosceles with  $AB > AC$  and  $AB > BC$ . Also,  $\overline{XY} \parallel \overline{AB}$ . Name each of the following.



1. sides of the triangle
2. angles of the triangle
3. vertex angle
4. base angles
5. side opposite  $\angle BCA$
6. congruent sides
7. angle opposite  $\overline{AC}$

Use a protractor and ruler to draw triangles using the given conditions. Classify each triangle by the measures of its angles and sides.

8.  $\triangle BHE$ ,  $BE = 1$  inch,  $m\angle E = 60$ ,  
 $HE = \frac{1}{2}$  inch

9.  $\triangle QTR$ ,  $m\angle T = 60$ ,  $QT = TR = 4$  cm

10. Find the measures of the legs of isosceles triangle  $ABC$  if  $AB = 2x + 4$ ,  $BC = 3x - 1$ ,  $AC = x + 1$ , and the perimeter of  $\triangle ABC$  is 34 units.